Jesse Eaton

Computational Biologist

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Skills

Math/Stats: machine learning (constrained), regression, linear programs
Programming: C, C++, Python, R, Go, Matlab, Octave, Ruby, HTML, JS
Biology: seq. alignment analysis, confocal backscattering microscopy
Computer: Git, Unix environment, API development, MongoDB

Experience

Qeexo / Machine Learning Research Engineer

February 2018 - Present, Pittsburgh PA

Explored experimental machine learning (ML) problems on sensor data. Compressed ML models for highly time/space/energy constrained environments. Demoed projects at Consumer Electronics Show 2019.

Carnegie Mellon University / Graduate Researcher

January 2017 - January 2018, Pittsburgh PA

Developed theory for tumor deconvolution/phylogenetic inference with structural variants. Built machine learning pipeline for predicting tumor progression. Presented paper at ISMB 2018 Comp Bio conference and published in Bioinformatics journal.
https://academic.oup.com/bioinformatics/article/34/13/i357/5045780

MITRE / Software Systems Engineer

September 2015 - August 2016, Bedford MA

Built web based electronic medical validation tool for Health Services Dept. as main engineer. Used Amazon Elastic Compute Cloud (AWS).

Tufts University / Differentiating Circulating Tumor Cells

September 2014 - May 2015, Boston MA

Investigated back scattering of leukocytes and breast cancer cells. Determined separability of populations using forward/back scattering.

Education

Carnegie Mellon University / M.S. Computational Biology

September 2016 - December 2017, Pittsburgh PA

GPA: 3.91, machine learning, simulation, statistics, regression, computational genomics, automation of biology, cancer biology

Tufts University / B.S. Biomedical Engineering, Computer Science

September 2011 - May 2015, Boston MA

GPA: 3.45, genetics, algorithms, quantum chemistry, medical imaging, machine programming and assembly, drug delivery, tissue engineering